

AUTHOR: Gramm, M. N. SOV/20-120-4-47/67

TITLE: On the Akchagyl and Apsheron Sediments in the Lower Reaches of the Amu-Darya River (Ob akchagyl'skikh i apsheron skikh otlozheniyakh v nizov'yakh r. Amu-Dar'i)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 120, Nr 4, pp.859-862 (USSR)

ABSTRACT: In the paper given by reference 2 it is communicated that in a drilling hole north of Novyy Kara-Uzyak (northern part of the recent Amu-Darya delta (Amu-Dar'ya)) gray loams containing numerous Avimactra, Potamides and Clessiniola polejaevi were found. Combined with these sediments, undoubtedly Akchagyl (Akchagyl'skiye) others with an ostracode microfauna are connected, belonging to the Apsheron (Apsheronskiye Upper Pliocene). The Akchagyl layers were found only in one drilling hole, 25 km north of Takhta-Kupyr (approximately 43°08' of northern latitude and 60°05' of eastern longitude) in a depth between 41,00 and 61,50 m. Presumably the gray loams in a depth between 30,10 and 57,80 m also belong to these, which were found 19 km north of this drilling hole. As a general rule it can be maintained that the major part

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of the Akchagyl was destroyed previous to the sedimentation of the Apsheron layers. The evidence available is sufficient to assume the penetration of an ocean bay of the Aktschagyl Sea into the region of the lower reaches of the Amu-Darya. It is still unknown, whether the connection with the main basin of this sea was effected by the Upper-Uzboy (Verkhne-Uzboiskiy) corridor or by straits farther to the east. These drillings have shown that Apsheron layers are by far more widely distributed in the Amu-Darya delta, than has been hitherto known. (Refs 1, 7, 8, 11). They are covered by an anthropogenic mass (with a height of strata of several dozens of meters) and are deposited in the hollows of an erosion relief, which was eroded mainly from Paleogenic sediments. The Apsheron has a height of from 18 to 85 m and consists of loosely packed sandstone, which is yellow-brown, sometimes yellow-gray and more rarely gray. It contains subordinated lens-shaped strata of gray loam (sometimes with a height of from 2 - 3 dozens of meters). The upper boundary of the Apsheron cannot be drawn conclusively. Its bed is lowered towards the Aral depression (Aral'skaya vpadina)

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On the Akchagyl and Apsheron . . . Sediments in the Lower Reaches of the Amu-Darya River

and forms a very uneven surface. The classification of these layers as **Apsheron** is proved mainly by an ostracode fauna. Lists of certain species (partly from data by B. G. Khayrullin) are given. The type of sediments leads to the assumption that in the region of the lower reaches of the Amu-Darya river a rather brackish water existed during the **Apsheron** period. The author proposed to call it **Lake** Bay of Khoresm (Khorez-miyskoye ozero-saliv). Together with a number of other waters it formed a group of inland waters, which only had an insufficient connection with the main basin of the Apsheron Sea, which was located in the region of the Caspian Sea (Kaspia). Great amounts of terrigenous material indicate substantial rivers, which emptied into the newly named water from the East and the South-East. The individual basins exhibited a different salt content. A. B. Vasyutinskaya, F. M. Karpov, L. I. Kvanina, P. M. Sveshnikov, R. M. Teush, V. V. Tolkonnikov and V. M. Fomin furnished the material used in this paper, while A. G. Uberzin precisely determined the mollusks. There are 11 references, 11 of which are Soviet.

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On the Akchagyl and Apaheron
Darya River

SOV/2o-12o-4-47/67

Sediments in the Lower Reaches of the Amu-

ASSOCIATION: Institut geologii Akademii nauk UzSSR
(Institute of Geology of the Uzbek SSR)

PRESENTED: February 13, 1958, by D. V. Malivkin, Member, Academy of Sciences, USSR

SUBMITTED: February 6, 1958

1. Inland waterways--Sedimentation
2. Geology--USSR
3. Geophysical prospecting--USSR
4. Geological time--Determination
5. Paleoecology

Card 4/4

GRANN, M.N.

Limocypris ostracod complex in the Kopelevy (Eocene) stratum of
Fergana. Dokl. AN Uz.SSR no.4:19-32 '59. (Kfch. 12:7)

I. Institut geologii AN UzSSR. Predstavлено членом-корреспондентом
АН УзССР Н.О. Коржевским.
(Fergana—Ostracoda, Fossil)

3 (5)

AUTHOR:

Gramm, M. N.

SOV/20-127-3-44/71

TITLE:

On the Red Oligocene Deposits of the Kyzylkumy

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 3, pp 630-633 (USSR)

ABSTRACT:

These sediments are rather widespread in the Kyzylkumy region but hardly discussed in publications. After presenting a short survey on publications (Refs 1-5), the author gives a detailed description of their structure and characteristic micro-paleontological features on account of borings carried out by the Uzbekskiy gidrogeologicheskiy trest (Uzbek Hydrogeological Trust). The sediments of the Central Kyzylkumy can be divided into two suites according to their properties and the distribution of organic remnants: (a) Sarbatyrskaya (corresponds largely to the Krasnotsvetnaya suite by S. A. Kushnar'; depth: 30-64 m); (b) Agyminskaya (corresponds to the brown-red clays by the same author; depth: 75-150 m). Both suites are described with regard to their rocks, the strata lying beneath and on top of them, and the fossil Ostracoda, mollusks, and Foraminifera contained herein. In the first suite fresh-water elements among the Ostracoda are remarkable. The boundary with suite (b) on top is often very

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On the Red Oligocene Deposits of the Kyzylkumy

SOV/20-127-3-44/71

indistinct. Suite (b) usually has not many organic remnants. A complex of fresh-water Ostracoda could be found. The upper boundary of this suite is unknown since it is everywhere cut off by Upper Pliocene and anthropogenetic sediments. This indicates that there was no abrupt break between these two suites but a gradual transition. The sediments under discussion were disclosed by borings also outside the central Kyzylkumy. The two suites still need precise dating although there is no doubt that they belong to the Oligocene. It may be assumed that suite (b) includes the Upper Oligocene. Further, it is possible that an interruption took place before the sedimentation of suite (a). The connection of the shallow watercourse reaching the south-western spurs of the Gissar (Hissar) Chain and possibly enclosing the eastern Karakumy with the Fergana and South Tadzhik Bay was difficult. In the west the shallow watercourse attained the open sea. East of the Kyzylkumy was a coastal plain with continental sediments. Subsequently, the shallow water was here and there displaced by a plain. At the beginning of the deposition of suite (b) the climate became continental and dry-hot. There are 5 Soviet references.

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On the Red Oligocene Deposits of the Kyzylkumy

SOV/20-127-3-44/71

ASSOCIATION: Institut geologii Akademii nauk UzSSR (Institute of Geology of the Academy of Sciences of the Uzbekskaya SSR)

PRESENTED: March 19, 1959, by D. V. Nalivkin, Academician

SUBMITTED: March 18, 1959

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"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516520010-1

GRAMM, M.N.

Oligocene red beds in the southwestern Kyazyl Kum. Trudy
Uz.geol.upr. no.1:56-62 '60. (MIRA 14:8)
(Kyzyl Kum--Geology, Stratigraphic)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516520010-1"

GRAMM, M.N.

Neogene sediments in the central Kyzyl Kum. Izv. AN SSSR. Ser.
geol. 24 no.6:61-70 Je '60. (MIRA 14:4)

1. Institut geologii AN UzSSR, Tashkent.
(Kyzyl Kum—Geology, Stratigraphic)

GARIN, N.N.; GRIDNEV, N.I.; KRODZEN'YTOV, A.Kh.

Genesis of Cenozoic molasses in the central part of the Terek Depression (according to the materials of deep boring). Bokl.
AN SSSR 137 no. 1:135-138 Mir-Ap '61. (MIL 14:2)

1. Predstavleno akademikom D.V. Malivkinym.
(Ferjum---Rocks, Sedimentary)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516520010-1

GRAMM, M.N.

Studying Lower Cretaceous sediments in the southwestern part
of the Fergana Valley. Trudy Sred.-Az.politekh.inst.
no.12:137-143 '61. (MIRA 18:12)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516520010-1"

GRAMM, M. N.

Dissertation defended in the Geological Institute for the academic degree of Doctor of Geologo-Mineralogical Sciences:

"Stratigraphy of the Cenozoic molassas of Fergana and Their Comparison with the Tertiary Continental Deposits of Several Neighboring Regions.

Vestnik Akad Nauk, No. 4, 1963, pp. 119-145

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516520010-1

GRAMM, M.N.

Geological history of the Syr Darya Valley in the Neogene. Biul.
MOIP.Otd.geol. 38 no.2:78-89 Mr-Ap '63.

(MIRA 16:5)

(Syr Darya Valley--Geology)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516520010-1"

GRAMM, M.N.

Find of ostracods of the genus Mediocytherideis in Neogene
deposits of the Bukhara-Karshi Steppes (Uzbek S.S.R.). Paleont.
zhur. no.2:155-157 '64. (MIRA 17:7)

1. Dal'nevostochnyy geologicheskiy institut Sibirskogo
otdeleniya AN SSSR.

GRAMM, M.N.

Find of Ostracoda Cytherissa lacustris (G. O. Sars) in the
Ochreous series of the Tunkin depression (Lake Baikal region).
Dokl. AN SSSR 165 no.3:636-639 N '65. (MIRA 18:11)

1. Dal'nevostochnyy geologicheskiy institut Dal'nevostochnogo
filiala Sibirskogo otdeleniya AN SSSR. Submitted May 17, 1965.

L 32042-66 EWP(e)/ EWT(m)/EWP(t)/ETI IJP(c) JD/JG/AT/WH
ACC NR: AP6013339 (A) SOURCE CODE: UR/0363/66/002/004/0608/0616

AUTHOR: Meyerson, G. A.; Zhuravlev, N. N.; Manelis, R. M.; Runov, A. D.;
Stepanova, A. A.; Grishina, L. P.; Gramm, N. V.

ORG: Physics Department, Moscow State University im. M. V. Lomonosov (Fizicheskiy
fakul'tet, Moskovskiy gosudarstvennyy universitet)

TITLE: Some properties of yttrium borides

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 4, 1966, 608-616

TOPIC TAGS: yttrium compound, boride, work function, thermionic emission

ABSTRACT: The thermionic and crystallographic constants of the borides YB_4 , YB_6 , and YB_{12} were measured, and the behavior of these materials in a vacuum at elevated temperatures was studied. The borides were prepared by the vacuum thermal method by reducing yttrium oxide with boron. YB_4 is indexed in a tetragonal lattice with constants $a = 7.12$, $c = 4.04 \pm 0.05 \text{ \AA}$. YB_6 and YB_{12} are indexed in a cubic lattice with constant $a = 4.102$ and $7.506 \pm 0.002 \text{ \AA}$, respectively. It was shown that only YB_4 is stable during high-temperature treatment (up to 2750K); YB_6 and YB_{12} decompose to

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UDC: 546.641'271

L 32042-66

ACC NR: AP6013339

form YB_4 . The microhardness and strength of the borides decreases in the series $\text{YB}_4 \rightarrow \text{YB}_6 \rightarrow \text{YB}_{12}$. Measurements of the thermionic emission showed that the highest density of the emission current was that of YB_4 (0.284 A/cm^2 at 1890K). Currents of $9.68 \times 10^{-4} - 2.01 \times 10^{-5} \text{ A/cm}^2$ can be obtained from YB_6 and YB_{12} on a tantalum substrate at maximum operating temperatures of 1790 and 1730K, respectively. The work function (ϕ_0) increases from 3.2 to 5.31 to 5.36 in the series $\text{YB}_4 \rightarrow \text{YB}_6 \rightarrow \text{YB}_{12}$. The emissive properties depend substantially on the phase composition of the material. In their emissive properties, the yttrium borides studied are substantially inferior to lanthanum hexaboride. Orig. art. has: 8 fig. and 5 tables.

SUB CODE: 11 / SUBM DATE: 16Jun65 / ORIG REF: 007 / OTH REF: 004

Card 2/2 *SO*

ACC NR: AP6036905

(N)

SOURCE CODE:

AUTHOR: Manelis, R. M.; Meyerson, G. A.; Zhrovlev, N. N.; Telyukova, T. M.; Stepanova, A. A.; Gramma, N. V.

ORG: Moscow Institute of Steel and Alloys (Moskovskiy institut stali i splavov)

TITLE: Some specific features of the synthesis of yttrium and gadolinium borides and some of the boride properties

SOURCE: Poroshkovaya metallurgiya, no. 11, 1966, 77-84

TOPIC TAGS: yttrium boride, gadolinium boride, chemical synthesis, boride, yttrium, gadolinium, porosity, hardness, bending strength

ABSTRACT: Yttrium and gadolinium borides were synthesized from respective oxides with amorphous boron at 1400—2000°C in a vacuum of 2—5·10⁻⁵ mm Hg. The reaction $\text{MeO} + 2\text{B} \rightarrow \text{MeB} + \text{B}_0$ yielded YB_4 , YB_6 and YB_{12} yttrium borides and GdB_4 and GdB_6 gadolinium borides. Single-phase YB_6 and YdB_6 hexaborides were obtained at 1700°C; at higher temperature they decomposed into tetraborides and boron. Single-phase YB_{12} compound was obtained at 1600—1700; at higher temperatures it decomposed into YB_{602} YB_4 compounds. Yttrium and gadolinium boride powders were then compacted, sintered in vacuum, and tested. The porosity of yttrium-boride specimens was 22—26%, and that of gadolinium-boride specimens was 30—32%. The microhardness and bend strength of YB_4 , YB_6 , and YB_{12} was 2850 dan/mm², and 290 dan/cm², 2575 dan/mm², and 270 dan/cm², and 2500 dan/mm², and 165 dan/cm², respectively. The microhardness

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ACC NR: AP6036905

and bend strength of GdB₄ and GdB₆ was 1900 dan/mm² and 675 dan/mm² and 1850 dan/mm² and 320 dan/cm², respectively. The borides contained almost no impurities. The most oxidation resistant were gadolinium borides and, among yttrium borides, the YB₁₂ compounds. Orig. art. has: 5 figures and 6 tables.

SUB CODE: 13, 11/ SUBM DATE: 12Apr66/ ORIG REF: 008/ OTH REF: 003/

Card 2/2

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516520010-1"

GRAMM O.S.,

USSR/Metals - Spectrography

Sep/Oct 50

"Spectral Determination of Carbon in Steels and Cast Iron," V. P. Borzov, O. S. Gramm, S. S. Rimlyand, S. Sventitsky, K. I. Taganov

"Iz Ak Nauk SSSR, Ser Fiz" Vol XIV, No 5, pp 611-617

Finds spectraph of medium dispersion is sufficient.
Best exciting method is hf spark.

KRUTIY, V.V.; ARMASHOVA, Z.P.; GRAMM, V.A.

New ERM-2 electromagnetic separator. Met. i gornorud. prom. no.2:
(MIRA 18:5)
65-67 Mr-Ap '65.

VOYTSEKHOVSKAYA, I.A.; GRAMAKOV, A.G., prof.; YERMOLOVA, A.P.;
LYATKOVSKAYA, N.M.; MALYSHEVA, T.D.; ORLOV, V.M.;
PIGULEVSKIY, Ye.D.; VASILEVSKAYA, V.N., tekhn. red.

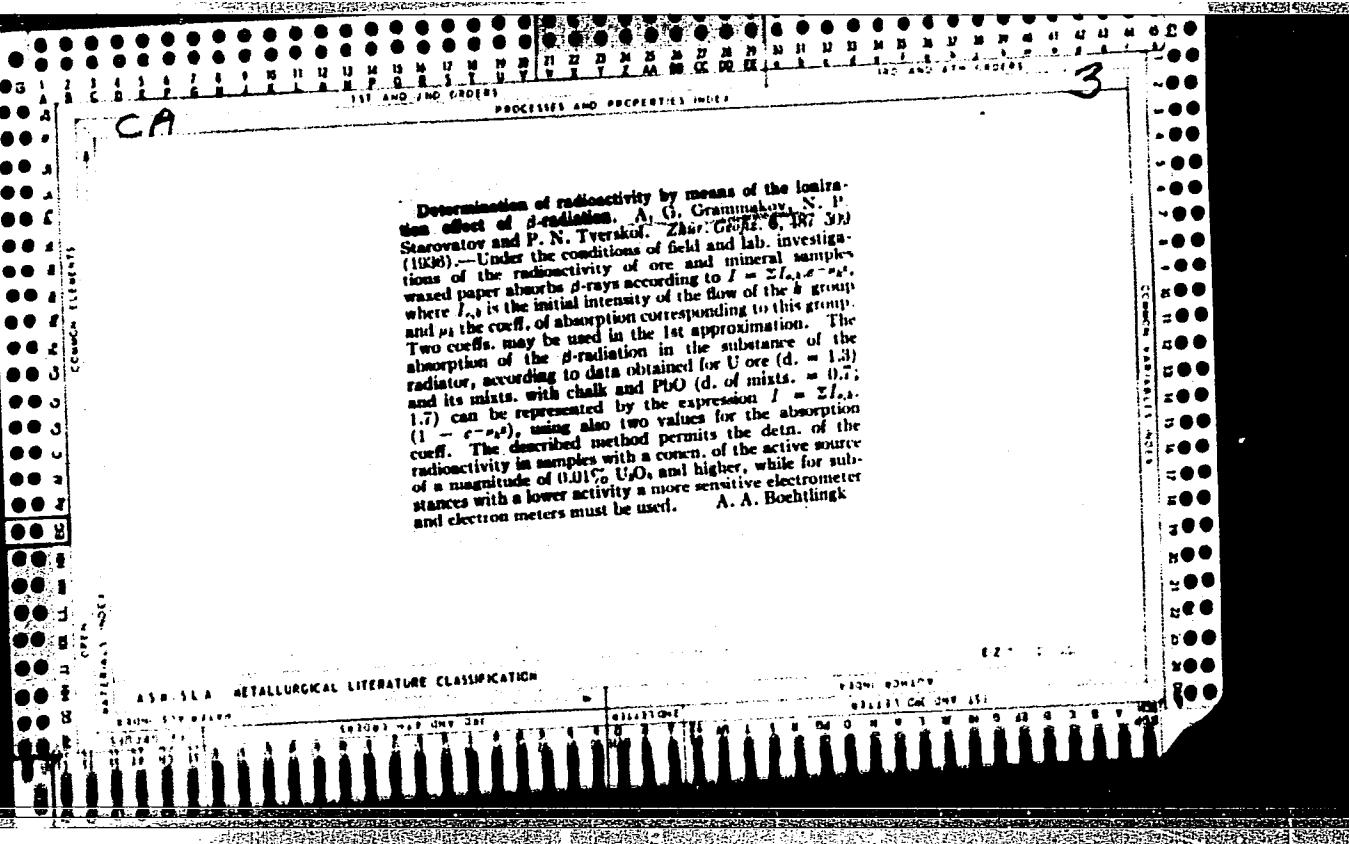
[Exercises in physics] Posobie k uprazhneniam po fizike.
Leningrad, Leningr. elektrrotekhn. in-t im. V.I.Ul'ianova
(Lenina). Part 3.[Optics, atomic physics] Optika, atom-
naia fizika. 1962. 197 p. (MIRA 16:12)
(Physics--Problems, exercises, etc.)

cr

5

The influence of some factors on the spreading of radioactive emanations in natural conditions. A. G. Gramakov. *Zhurnal Tekniki Priborostroyeniya i Radioelektronika* 6, 120 (1961). Diffusion is the principal factor in the spreading of the emanations in a gas when the diffusion coeff. $k = 1.0 \times 10^{-3}$ sq. cm./sec. and gas is moving with a velocity $v = 5$ cm./day, with $v = 25$ cm./day the influence of the diffusion is less and with $v = 50$ cm./day the movement of the gas is the chief factor in the spreading. At $k = 5 \times 10^{-4}$ sq. cm./sec. and with an average value of $v = 25$ cm./day the influence of diffusion is insignificant, while with $k = 5 \times 10^{-4}$ sq. cm./sec. and the same velocity the influence of diffusion is considerable. For moisture up to 0.7% k varies from 0.07 to 0.00; up to 15% moisture k decreases to 0.01 sq. cm./sec., and at moisture content of about 17% $k = 0.005$ sq. cm./sec. Details of expts. are given. Six references.

A. A. Podromov



GRAMMAKOV, A. G.

AIKSEYEV, V.V., otvetstvennyy redaktor; GRAMMAKOV, A.G., redaktor; NIKONOV,
A.I., redaktor; TAYEYEV, G.P., redaktor; BABINTSEV, N.I., redaktor
izdatel'stva; GUROVA, O.A., tekhnicheskiy redaktor

[Radiation measuring methods of exploring and prospecting for
uranium ores] Radiometricheskie metody poiskov i razvedki uranovykh
rud. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane
nedr, 1957. 609 p. (MLRA 10:9)

1. Russia (1923- U.S.S.R.) Ministerstvo geologii i okhrany nedr
(Uranium ores) (Prospecting)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516520010-1

GRAMMAKOV, A.G.; ORLOV, V.M.; BREYDO, M.I.

Optical and acoustic signaling instruments used for the detection of
static electricity. Priborostroenie no. 2:19-20 F '57. (MIRA 10:4)
(Electrostatics--Measurement)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516520010-1"

GRAMMAKOV, A.G.

49-6-10/21

AUTHORS: Grammakov, A. G. and Popretinskiy, I. F.
TITLE: Distribution of radon in loose deposits in presence of
oreols of radium scattering. (Raspredeleniye radona v
rykhlykh otlozheniyakh pri nalichii oreolov rasseyaniya
radiya).
PERIODICAL: "Izvestiya Akademii Nauk, Seriya Geofizicheskaya"
(Bulletin of the Ac.Sc., Geophysics Series), 1957, No.6,
pp. 789-793 (U.S.S.R.)

ABSTRACT: Some data are given of the study of the dependence between
radon concentration in loose deposits of the weathered Earth's
crust and of the radio activity of these deposits. Numerous
investigations have shown that the distribution concentration
of radon in loose deposits depends on the content and
character of the radium distribution in these deposits and on
their emanation; the character of distribution of radon also
depends on the conditions of gas exchange between the loose
deposits and the atmosphere. The steady state values of the
radon concentration at any point of the cross section of the
loose deposits and their relation with available sources of
emanation are sought by solving the diffusion equation. It
is shown in the graph, Fig.2, that the distribution concentra-
tion of radon in the middle part of the layer of loose

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Distribution of radon in loose deposits in presence of oreols of radium scattering. (Cont.)

deposits proceeds practically in accordance with a linear law, whilst near to the division boundary there is a deviation from the linear law and the magnitude of the observed radon concentrations at these sections is usually less than the concentration caused by emanation which, for the top boundary, is attributed to the presence of gas exchange with the atmosphere and at the bottom boundary to the absence of flow from the underlying rocks. The given solutions of the diffusion equation and the shapes of the obtained curves indicate that if loose formations contain oreols of scattering of radium the distribution of radon is determined by the simultaneous influence of the processes of emanation and gas exchange. The lower the speed of gas exchange the larger will be the influence on the radon concentration distribution, with the depth of the emanation of loose deposits. For very small speeds of gas exchange and large thicknesses of the loose deposits the radon distribution concentration is determined primarily by the character of the radium distribution of these deposits and their emanation. Radon oreols should in many cases be considered as closely connected with oreols of scattering of radium.

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49-6-10/21

Distribution of radon in loose deposits in presence of
oreols of radium scattering. (Cont.)

There are four graphs.

SUBMITTED: August 20, 1956.

AVAILABLE: Library of Congress

Card 3/3

15-1957-10-14144

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10,
p 124 (USSR)

AUTHORS: Aydarkin, B. S., Gorshkov, G. V., Grammakov, A. G.,
Zhadin, V. S., Kolchina, A. G.

TITLE: A Method of Determining Beryllium in Ores by Photoneu-
trons (K metodike opredeleniya berilliya v rudakh po
fotoneytronam)

PERIODICAL: Tr. Radiyev. in-ta AN SSSR, 1957, vol 5, Nr 2, pp 89-93

ABSTRACT: Neutron radiation, produced by bombarding beryllium-
bearing material with gamma rays of sufficient energy,
was used for bombarding the target. A comparison of the
radioactivity of a standard with that of a sample intro-
duced in the target makes it possible to calculate the
concentration of Be in the sample. A vial containing
48.5 mg of Ra-equivalent serves as the gamma-ray source.
Silver is used for the target. Experimental studies
have shown that for a given strength of gamma radiation
the introduced radioactivity, within sufficiently wide

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15-1957-10-14144

A Method of Determining Beryllium in Ores by Photoneutrons

limits, is proportional to the concentration of Be. For Be concentrations of 0.1%, the error of measurement amounts to several times 10%. For concentrations of 0.5%, the error is down to 10%. For large concentrations the error is lowered in proportion to the square root of the concentration.

L. I. Afanas'yeva

Card 2/2

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516520010-1

G.R. GRAMMAKOV. A.G.
BERKUT, A.Ye.; GRAMMAKOV, A.G.; ORLOV, V.M.; KHROPOVA, P.M.

Manifestations of static electricity during the production of
oilcloth. Leg. prom. 17 no. 12:29-32 D '57. (MIRA 11:1)
(Synthetic fabrics--Electric properties)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516520010-1"

GRAMMAKOV, A.G.; SHASHKIN, V.L.; SHIRYAYEVA, M.B.; SURAZHSKIY, D.Ya.;
red.; NIKONOV, A.I., red.; KLEPTSOV, F.F., red.; VLASOVA,
N.A., tekhn.red.

[Instructions on gamma-ray testing of radioactive ores in the
ore bed] Rukovodstvo po gamma-oprobovaniyu radioaktivnykh rud
v estestvennom zaledenii. Moskva, Izd-vo glav.upr. po ispol'-
zovaniyu atomnoi energii pri Sovete Ministrov SSSR, 1959.
(MIRA 13:2)
56 p.

(Radioactivity--Measurements)
(Ores--Sampling and estimation)

(GRAMMAKAR, A.C.)

22(1) 2000-1 ROME INFORMATION 807/2714
International Conference on the Peaceful Uses of Atomic Energy - 2nd.
Geneva, 1958
Biology, mathematics, engineering, geophysics, and other sciences concerned with the peaceful uses of atomic energy. (Institute of Nuclear Sciences, Nuclear Power and Reactor Metals) Moscow, December, 1958. (70 pp. (Russian) (French) (English)) (Report No. 2000-1364).

22(1) A.I. Shabotov, Academician, A.P. Vinogradov, Academician, V.A. Serebrovsky, Corresponding Member, USSR Academy of Sciences, and V.V. Kostylev, Doctor of Technical Sciences, Head (main book), V.F. Ponomarev and O.A. Pashutina, Sovn. Akad. Nauk.

Content: This volume is intended for scientists, engineers, physicians, and technicians working in the production and peaceful applications of atomic energy. It is addressed to professionals and students of schools of higher technical education where the subjects "Energy" and "Physics" is taught and for people interested in atomic science and technology.

Comments: This is volume 3 of a collection of reports on atomic energy presented by Soviet scientists at the Second International Conference on the Peaceful Uses of Atomic Energy, held in Geneva from September 1 to 13, 1958. Volume 3 consists of two parts. The first part, edited by A.I. Shabotov, describes the assembly, prospective, construction, and processing of nuclear reactors. The second part, edited by O.A. Zverev, includes 27 reports on safety, metallurgy, processing technology of nuclear fuels and materials, and neutron irradiation effects on metals. The titles of the individual reports in most cases correspond with those in the original English language edition on the Conference proceedings. See also/with the titles of the other volumes of the set.

Filshin, A.I., O.A. Tsvetkov, G.D. Glazkov, I.I. Shul'nikov, V.A. Pashutina, V.S. Sogolova, Paragonetic Association of Hydrocarbon Nitrogen in Soviet Deposits of the Soviet Union (Report No. 2001)

Comments: A.I. Shabotov, O.A. Tsvetkov, A.E. Matutis, and V.I. Serebrovsky, New Data on Uranium Minerals in the USSR (Report No. 2002)

Comments: A.I. Shabotov, V.Y. Frashchenko, A.I. Nikonorov, N.M. Shchegolev, N.M. Slobodchikov, and S.P. Gerasimov, Some Theoretical and Methodical Problems of Mathematical Processing and Survey (Report No. 2003)

Comments: A.I. Shabotov, The One-Step Reaction Method for Classification of Radioactivity (Report No. 2005)

Comments: A.I. Shabotov, Some Problems of Radiometric Uranium Ore Concentration (Report No. 2006)

Comments: A.I. Shabotov, Some Problems of Radiometric Uranium

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GRAMMAKOV, A. G., doktor geol.-mineral. nauk, prof.

Aleksandr Stepanovich Popov's activity as professor of physics
at the Institute of Electrical Engineering. Izv. LETI no.38:27-
51 '59. (MIRA 13:8)
(Popov, Aleksandr Stepanovich, 1859-1906)

06525

SOV/142-2-2-1/25

6(0)
AUTHORS:

Grammakov, A.G., and Popova-K'yandskaya, Ye.A.

TITLE:

The Scientific and Pedagogic Activities of Aleksandr
Stepanovich Popov

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika,
1959, Vol 2, Nr 2, pp 131-145 (USSR)

ABSTRACT: This article was written on the occasion of the hundredth anniversary of Aleksandr Stepanovich Popov's birthday. He was born on March 16, 1859, in the Urals, in the settlement Tur'inskiy rudnik of the Verkhoturskiy uyezd. The article covers in detail Popov's scientific education and gives a detailed account of his scientific and pedagogic activities since 1883. Scientific papers and books written by A.S. Popov, as well as experiments performed by him, are listed in detail. A.S. Popov died on December 31, 1905, of a cerebral hemorrhage. There are 2 photographs, 3 diagrams and 16 references, 15 of which

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SOV/142-2-2-1/25

The Scientific and Pedagogic Activities of Aleksandr Stepanovich
Popov

are Soviet and 1 German.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut imeni
V.I. Ul'yanova (Lenina) (Leningrad Electrical En-
gineering Institute imeni V.I. Ul'yanov (Lenin)

SUBMITTED: December 29, 1958

Card 2/2

ALEKSEYeva, Ye.F.; KIRILLOV, V.V.; LIATKOVSKAYA, N.M.; MALYSHEVA, T.D.;
ORLOV, V.M.; STEPANOV, A.S.; KHROPOVA, P.M.; CHERNENKO, M.I.;
GRAMMAKOV, A.G., prof., red.; SMIRNOV, P.S., tekhn. red.

[Manual on exercises in physics] Posobie k uprazhneniam po fizike.
Leningrad, Leningr. elektrotekhn. in-t im. V.I.Ul'ianova (Lenina).
Part. 1. [Mechanics. Molecular physics] Mekhanika, Molekularnaia
fizika. Sost. E.F.Alekseeva i dr. 1960. 75 p. (MIRA 14:10)
(Physics—Problems, exercises, etc.)

GRAMMAKOV, A.G.; OVCHINNIKOV, A.K.; LYUBAVIN, Yu.P.; OVCHINNIKOV, V.M.;
SAZONOV, A.M.

Effect of the composition of uranium ores on the gamma-ray spectrum as
recorded by a scintillation spectrometer. Atom.energ. 10 ^{-10.6:}
624-626 Je '61. (MIRA 14:6)
(Uranium ores) (Gamma rays)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516520010-1

GRAMMAKOV, A.G.; GLEBOVSKAYA, V.S.; KHAYKOVICH, I.M.

Theory of the helium method. Vop.rud.geofiz. no.3:3-21 '61.
(MIRA 15:8)
(Radioactive prospecting)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516520010-1"

S/169/62/000/006/045/093
D228/D304

AUTHOR: Grammakov, A. G.

TITLE: Some questions of the theory of the emanation method

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 6, 1962, 34-35,
abstract 6A262 (V sb. Vopr. rudn. geofizik., no. 2, M.,
Gosgeoltekhnizdat, 1961, 86-93)

TEXT: The distribution of radioactive emanations in rocks with radioactive halos is considered. The change in the overburden radio-contamination at a distance from the radioactive body is assumed to satisfy the linear and the power or the exponential relationships. The process whereby emanations spread is considered as diffusive-convectional. Solutions of differential equations are derived for the diffusion-convection process when the radiocontamination varies with depth according to linear, power, and exponential functions. It is noted that the influence of radiocontamination and flow on the concentration magnitude grows with separation from the active bed. A number of particular cases applicable to local-type objects ✓

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Some questions of ...

S/169/62/000/006/045/093
D288/D304

are considered. Curves are given that characterize the emanation distribution when the values for the rate of flow and the linear change of overburden radiocontamination with depth are different. The cited graphs totally confirm the conclusion drawn about the influence of convection flow and overburden radiocontamination on the distribution of radon in detritus. Proceeding from the data obtained about the depth potential of the emanation method it is concluded that in natural environments the diffusion coefficient's magnitudes do not differ from the values obtained under laboratory conditions, and that in most cases the process of diffusion is the main one for the spreading of emanations in natural environments.

Abstracter's notes: Complete translation.

Card 2/2

S/169/62/000/009/058/120
D228/D307

AUTHORS: Grammakov, A. G., Gelobovskaya, V. S. and Khaykovich,
I. M.

TITLE: Some problems of the theory of the helium method

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 9, 1962, 42-43,
abstract 9A281 (In collection: Vopr. rudn. geofiz.,
no. 3, M., Gosgeoltekhnizdat, 1961, 3-21)

TEXT: The basic theoretical principles of the helium method of seeking uranium deposits are given. The method is based on the fact that much of the He⁴ is a radioactive decay product of elements of the uranium and thorium series. Part of the helium escapes in consequence of the crystal lattice being disturbed. The migration of escaping helium is considered on the basis of the diffusion theory; this allows use to be made of the developed theory of gas surveying and takes into account that helium is formed continuously in rocks through which it diffuses. The following points are considered: the stationary distribution of gas in rock; and the

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Some problems of...

S/169/62/000/009/058/120
D228/D307

possible helium concentration over uranium orebodies, in the form of endless beds with a uniformly distributed concentration, and over globularly and cylindrically shaped bodies. The question of establishing the stationary state and of estimating a deposit's age is studied. The results of calculating the distribution of helium on models and contrivances are given; they can be used to determine the coefficients of diffusion of gases under field and laboratory conditions. It is concluded that the helium method can be expediently used in areas where rocks have low diffusion factors ($\sim 10^{-5}$ cm/sec²). The question is raised about the creation of accurate and highly sensitive equipment and about the method's further development. [Abstracter's note: Complete translation.]

Card 2/2

GRAMMAKOV, A.G.

Theory of the emanation method. Vop.rud.geof. no.2:86-93
'61. (MIRA 15:4)
(Radioactive prospecting)

GRAMMAKOV, A.G.

Theory of the emanation method for local-type items. Vop.rud.geof.
no.2:135-148 '61. (MIRA 15:4)
(Radioactive prospecting)

GRAMMAKOV, A.G.; GLEBOVSKAYA, V.S.; KHAYKOVICH, I.M.

Helium method of prospecting for the deposits of radioactive
elements. Vop. rud. geofiz. no.5:3-19 '65. (MIRA 18:9)

GORSKIY, V.P.; GRAMMATCHIKOVA, Ye.A.

New data on the stratigraphy of Devonian sediments in the Chernysheva Ridge of the Polar Urals. Inform.sbor. VSEGEI no.43:27-30 '61. (MIRA 14:12)
(Chernyshava Ridge--Geology, Stratigraphic)

GORSKIY, V.P.; GRAMMATICHIOVA, Ye.A.

Importance of Carboniferous calcareous breccia and for the study
of the tectonic development of the Western Ural trough. Mat.
VSEGEI no.67:101-105 '61. (MIRA 15:12)
(Pechora Valley—Breccia)
(Pechora Valley—Geology, Structural)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516520010-1

GRAMMATIKATI, O. G. Cand. Biolog. Sci.

Dissertation: "Age Changes in Sugar Beet which Depend on the Conditions of Growth." Inst of Physiology of Plants imeni K. A. Timiryazev, Acad Sci USSR, 29 Apr 47.

SO: Vechernyaya Moskva, Apr, 1947 (Project #17836)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516520010-1"

RA 12747100

GRAMMATIKATI, O. G.

USSR/Medicine - Plants
Medicine - Nutrition

Jul 48

"Changes in the Viscosity of Plasma in Leaf Cells
of the Sugar Beet in Relation to the Amount of
Mineral Nutrition," O. G. Grammatikati, Inst
Physiol of Plants imeni K. A. Timiryazev, Acad
Sci USSR, 3¹/₄ pp

"Dok Ak Nauk SSSR" Vol LXI, No 3

Reports experiments. Results show that in course
of natural aging of sugar beet, increase in
protoplasmic viscosity occurs. Submitted 24 May 48

11/49T66

FIR

COUNTRY : USSR
 CATEGORY : Cultivated Plants. Cereals. M

ABS. JOUR. : RZhBiol., No. 23.1958, №. 104613

AUTHOR : Grammatikati, O. G.
 INST. : All-Union Scientific Research Institute of Hydraulic *)
 TITLE : Moisture-charging Irrigation of Winter Wheat in the Steppe Zone.

ORIG. PUB. : V sb.: Bio. osnovy orosshayem. zemled. M., AN SSSR, 1957.
 105-116

ABSTRACT : Conditions for obtaining stable crops of winter wheat with moisture-charging irrigation without vegetative applications of water, were studied at the All-Union Scientific Research Institute of Hydraulic Engineering and Melioration. Pre-sowing moisture-charging secures good development and wintering of the plants. In the chernozem soil on this side of Caucasus, the required amount of

*) Engineering and Melioration.

Card: 1/2

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APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000516520010-
 M

COUNTRY :
 CATEGORY :

ABS. JOUR. : RZhBiol., No. 1958, №. 104613

AUTHOR :
 INST. :
 TITLE :

ORIG. PUB. :

ABSTRACT : water can be distributed in 1.5-meter layer of soil. Therefore, it is expedient to wet the ground to the depth of 2 meters. Application of vegetative irrigation with the background of moisture charging, led to a severe lodging of the plants. The effectiveness of moisture-charging irrigation was expressed in the increase in the yield by 20 centners/ha. It is recommended to eliminate winter wheat in Rostov oblast' from crops requiring vegetative applications of water. ~ L. P. Maksimova

Card: 2/2

GRAMMATIKATI, O. G.

GRAMMATIKATI, O. G.

USSR / Cultivated Plants. Cereals.

ii

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 34619

Authors : petrov, E. G.; Grammatikati, O. G.

Inst : None

Title : Water Absorption of Winter Wheat in the Presence of Power Irrigation.

Orig Pub : Vestn. s. kh. nauki, 1957, No 3, 93-99.

Abstract : Results of experiments conducted over three years with winter wheat under conditions prevalent in the district of Rostov, are given. The application of power spraying without vegetative irrigations has, on the average, increased the yield during the three years of experimentation by 10 centners per hectare. Power irrigation makes possible a deeper penetration of

PETROV, Yevgeniy Grigor'yevich, kand.sel'skokhoz.nauk; GRAMMATIKATI,
Ol'ga Grigor'yevna, kand.biolog.nauk; ORLOVA, V.P., red.;
GOR'KOVA, Z.D., tekhn.red.

[Saturation irrigation] Vlagosariadochnoe oroshenie. Moskva,
Gos.isd-ve sel'khoz.lit-ry, 1958. 109 p. (MIRA 12:7)
(Irrigation farming)

GRAMMATIKATI, Ol'ga Grigor'yevna, kand. biol. nauk; PETROV,
Yevgeniy Grigor'yevich, kand. sel'khoz. nauk; KRAVTSOV,
G.Ya., red.; KOZLOVSKAYA, M.D., tekhn. red.; KOBYAKOVA,
G.N., tekhn. red.

[Saturation irrigation] Vlagozariadochnoe oroshenie. Izd.2.,
dop. Moskva, Sel'khozizdat, 1963. 150 p. (MIRA 17:2)

GRAMMATIKATI, V. M.

GRAMMATIKATI, Vera Mikhaylovna; PETROV, Vadim Konstantinovich; SHLYAPINTOKH,
Lev Samoylovich; BILINSKIY, M.Ya., red.; BARANOVA, N.N., tekhn.red.

[Teaching electric engineering; a concise practical manual]
Prepodavanie elekrotekhniki; kratkoe metodicheskoe posobie.
Moskva, Vses.uchebno-pedagog.isd-vo Trudrezervizdat, 1957. 102 p.
(MIRA 11:1)
(Electric engineering--Study and teaching)

GRAMMATIKATI, Vera Mikhaylovna; SHLYAPINTOKH, Lev Samoilovich;
PETROV, Vadim Konstantinovich [deceased]; KASATKIN, A.S.,
nauchn. red.; SIL'VERSTROVICH, G.A., red.; DORODNOVA,
L.A., tekhn. red.

[Teaching electrical engineering together with the
fundamentals of industrial electronics] Prepodavanie elek-
trotekhniki s osnovami promyshlennoi elektroniki. Moskva,
Proftekhizdat, 1963. 174 p. (MIRA 17:3)

GRAMMATIKATI, V.

Electric engineering course for the students of other occupations. Prof.-tekhn. ohr. 19 no.12:11-13 D '62.

(MIRA 16:2)

1. Glavnnyy spetsialist po energetike i telemekhanike uchebno-
uchebnicheskogo otdela Gosudarstvennogo komiteta Soveta
Ministrov SSSR po professional'no-tehnicheskemu obrazovaniyu.
(Electric engineering--Study and teaching)

21.5000

77253
SOV/89-8-2-18/30AUTHORS: Grammatikati, V. S., Margulis, U. Ya., Khrushchev, V. G.

TITLE: The Dose Field of a Linear Source. Letter to the Editor

PERIODICAL: Atomnaya energiya, 1960, Vol 8, Nr 2, pp 154-155 (USSR)

ABSTRACT: Since radioactive line sources are fairly common in applied and experimental devices, the authors thought it useful to present an approximate but sufficiently accurate method of calculations. As is known, the dose strength P_A of point A at distance h inside an object, Fig. 1, can be represented by means of tabulated integrals of Sievert (see ref):

$$P_A = \frac{k_V m}{H} \left[-I_1 \int_{\frac{\pi}{2}}^{\frac{\pi}{2} + \mu h (u_1 + 1) \sec \varphi} d\varphi + \right. \\ \left. -I_2 \int_{0}^{\frac{\pi}{2}} e^{-\mu h (u_2 + 1) \sec \varphi} d\varphi \right]. \quad (3)$$

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where $\varphi_0 = \tan^{-1} \frac{h}{H}$; H is distance from point A to the source; k_{γ} , γ -constant of the isotrope; m , linear activity of the source in μ Curie/cm (if m is expressed in mg equivalent Ra, then $k_{\gamma} = 8.4 \text{ R/h} = 0.14 \text{ R/min}$); μ , linear coefficient of decrease of a thin beam of γ -rays; $A_2 = 1 - A_1$, a constant; A_1 and A_2 , constants whose values for various absorbers and various energies of radiation are given in Goldstein's report and Rockwell's book (see refs).

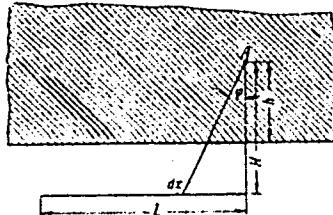


Fig. 1. Diagram for calculations of doses due to a linear source.

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SOV/89-8-2-18/30

Equation (3) holds for an object of infinite length and is also good for bounded geometry to approximately 10% accuracy. The authors computed the dose field for Co^{60} rays. Absorber was water, and values of constants used in the computation of Fig. 2 were: $\mu = 0.063 \text{ cm}^{-1}$; $a_1 = -0.095$; $a_2 = 0.060$; $A_1 = 8.88$; $A_2 = 1 - A_1 = -7.88$. To find from this picture the dose in air at a point A, one has to use the curve $h = 0$. An approximate formula accurate to 10-15% is:

$$P_A = P_0 e^{-0.05(h - \Delta)}, \quad (6)$$

where P_0 is dose strength in air at the given point, and μ and Δ are constants, depending on ratio H/L . This formula works for cases $h \geq 10 \text{ cm}$, at $H/L \leq 0.1$; for $h \geq 15 \text{ cm}$, at $0.6 \geq H/L \geq 0.2$; and for $h \geq 20 \text{ cm}$,

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The Dose Field of a Linear Source. Letter
to the Editor

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SOV/89-8-2-18/30

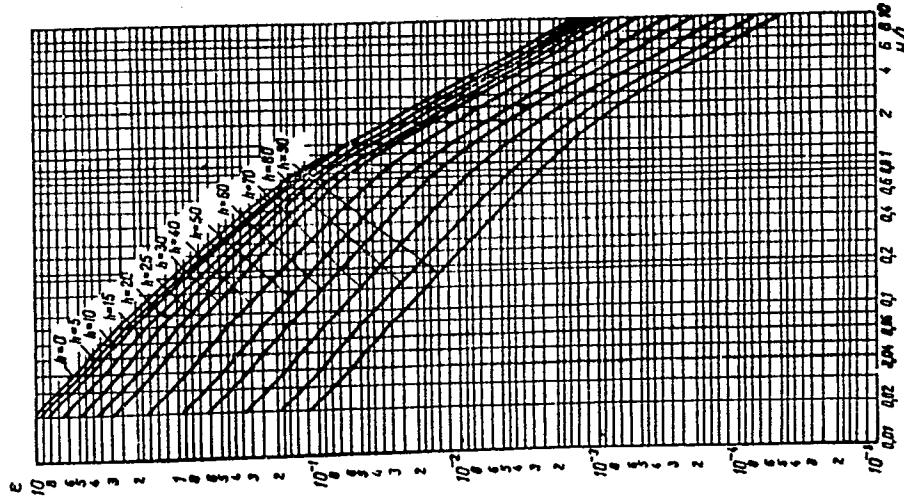


Fig. 2. Nomogram for calculations of dose strength
in water due to a linear source.

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at $10 \geq H/L \geq 0.7$. For smaller values of h one uses:

$$P_A = P_0 [1 - 2 \cdot 10^{-2} (h - a)]. \quad (7)$$

For both equations the constants are given in Table A.

Table A. Values of Constants in Eq. (6) and (7).

INTERVAL OF VALUES H/L	η	Δ	σ	CALCULATIONS ARE USING EQUATION (7) FOR THE FOLLOWING VALUES OF h_j , cm
0,01-0,1	$(1-2 \cdot 10^{-3} h)$	5	0	<10
0,2-0,6	1	8	3	<15
0,7-1,0	1	12	3	<20
2,0-10,0	$(1+4 \cdot 10^{-3} h)$	15	5	<20

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In case of a medium other than water with a density ρ ,
at a depth h^1 one can utilize Fig. 2 or Eq. (6) and
(7) for a given H/L by writing $h = \rho h^1$. There are
2 figures; 1 table; and 5 references, 1 Swedish, 4
U.S. The U.S. references are: H. Goldstein, Calcula-
tion of the Penetration of γ -Rays, US AEC, report
NDA-NYO 3075 (1954); U. Fano, Nucleonics, 2, Nr 8, 1
(1953); L. Spencer, U. Fano, J. Res. Nat. Bur. Standards,
46, 446 (1951); Shielding of Nuclear Reactor, edited
by T. Rockwell, M. Izd-vo inostr. lit. 1958.

SUBMITTED: May 4, 1959

Card 6/6

GRAMMATIKATI, V. S.

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LATYASHEV, G. D.

PHASE I BOOK EXPLOITATION SOV/5410

Tashkentskaya konferentsiya po mirnomu ispol'zovaniyu atomnoy energii, Tashkent, 1959.

Trudy (Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy) v. 2. Tashkent, Izd-vo AN UzSSR, 1960. 449 p. Errata slip inserted. 1,500 copies printed.

Sponsoring Agency: Akademiya nauk Uzbekskoy SSR.

Responsible Ed.: S. V. Starodubtsev, Academician, Academy of Sciences Uzbek SSR. Editorial Board: A. A. Abdullayev, Candidate of Physics and Mathematics; D. M. Abdurasulov, Doctor of Medical Sciences; U. A. Arifov, Academician, Academy of Sciences Uzbek SSR; A. A. Borodulina, Candidate of Biological Sciences; V. N. Ivashev; G. S. Ikramova; A. Ye. Kiv; Ye. M. Lebanov, Candidate of Physics and Mathematics; A. I. Nikolayev, Candidate of Medical Sciences; D. Nishanov, Candidate of Chemical Sciences; A. S. Sadykov, Corresponding Member, Academy of Sciences USSR, Academician, Academy of Sciences Uzbek SSR; Yu. N. Talanin,

Card 1720

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Transactions of the Tashkent (Cont.)

SOV/5410

Candidate of Physics and Mathematics; Ya. Kh. Turakulov, Doctor of Biological Sciences. Ed.: R. I. Khamidov; Tech. Ed.: A. G. Babakhanova.

PURPOSE : The publication is intended for scientific workers and specialists employed in enterprises where radioactive isotopes and nuclear radiation are used for research in chemical, geological, and technological fields.

COVERAGE: This collection of 133 articles represents the second volume of the Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy. The individual articles deal with a wide range of problems in the field of nuclear radiation, including: production and chemical analysis of radioactive isotopes; investigation of the kinetics of chemical reactions by means of isotopes; application of spectral analysis for the manufacturing of radioactive preparations; radioactive methods for determining the content of elements in the rocks; and an analysis of methods for obtaining pure substances. Certain

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Transactions of the Tashkent (Cont.)

SOV/5410

Instruments used, such as automatic regulators, flowmeters, level gauges, and high-sensitivity gamma-relays, are described. No personalities are mentioned. References follow individual articles.

TABLE OF CONTENTS:

RADIOACTIVE ISOTOPES AND NUCLEAR RADIATION
IN ENGINEERING AND GEOLOGY

Lobanov, Ye. M. [Institut yadernoy fiziki UzSSR - Institute of Nuclear Physics AS UzSSR]. Application of Radioactive Isotopes and Nuclear Radiation in Uzbekistan

7

Taksar, I. M., and V. A. Yanushkovskiy [Institut fiziki AN Latv SSR - Institute of Physics AS Latvian SSR]. Problems of the Typification of Automatic-Control Apparatus Based on the Use of Radioactive Isotopes

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Card 3/20

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- Transactions of the Tashkent (Cont.) SOV/5410
- Khrushchev, V. G., A. S. Lepilin, U. Ya. Margulis, S. M. Stepanov,
L. I. Belen'kiy, T. V. Bromberg, and V. G. Ivliyev. [Ministry of
Health USSR]. Industrial Gamma-Plant for Sterilization of Medical
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- Khrushchev, V. G., B. A. Rubin, L. V. Metlitskiy, A. I. Rytov,
N. M. Gayain, U. Ya. Margulis, V. S. Grammatikati, V. G. Vlasov,
and A. V. Petrov. [Ministry of Health USSR]. Gamma-Plant for
Continuous Irradiation of Potatoes 182
- Prokof'yev, N. S. [Institut ekonomiki AN SSSR - Institute of
Economics AS USSR]. Economic Efficiency of the Use of High-
Capacity Gamma-Plants in the Light and Food Industry 192
- Abdullayev, A. A., Ye. M. Lobanov, A. P. Novikov, and A. A.
Khaydarov [Institute of Nuclear Physics AS UzSSR]. Use of
a Multichannel Scintillation Gamma-Spectrometer for the Analysis
of Rock Specimens 199

Card 10/20

GRAMMATIKATI, V.S. (Moskva)

Ice calorimeter for measuring the absorbed dose of gamma-irradiation.
Med.rad. 9 no.9:85-87 S '64. (MIRA 18:4)

GRAMMATIKOV, A.N.; LUNEV, V.Ye., redaktor; SUROVA, V.A., redaktor;
ANDREYEV, G.G., tekhnicheskiy redaktor; KOROVENKOVA, Z.A., tekhnicheskiy redaktor

[Financing and granting credit for investments in coal industry]
Finansirovaniye i kreditovaniye kapital'nykh vlozhenii v ugol'noi promyshlennosti. Moskva, Ugletekhnizdat, 1955. 191 p. (MIRA 8:6)
(Coal mines and mining-Finance)

GRAMMATIKOV, A.N., inzh.

~~Increase the effectiveness of investments in mine building.~~
Shakht.stroi. no.9:1-3 S '57.
(Mining industry and finance)

(MIRA 10:10)

GRAMMATIKOV, A.N.

LUNEV, Viktor Yefimovich; GRAMMATIKOV, A.N., otvetstvennyy red.; SUROVA, V.A.,
red. izd-va; IL'INSKAYA, G.M., tekhn. red.; NADENSKAYA, A.A., tekhn.
red.

[Finance, credit, and payments in capital construction] Finansirovaniye,
kreditovaniye i raschety v kapital'nom stroitel'stve. Moskva, Ugle-
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